



2-wire room temperature transmitter

2914

- Room temperature measurement
- Complete with sensor and transmitter
- -4...20 mA output in 2-wire connection
- Easy mounting
- Measurement range 0...70°C
- Supply 8...35 VDC







Application

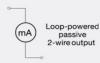
- · Electronic temperature measurement in for instance control rooms, offices, heating plants, factories, living rooms, and similar
- · Suitable as a transmitter for controllers, trip amplifiers, displays, or superior SCADA systems.

Technical characteristics

- · A precision Pt100 sensor with a small mass is mounted on the transmitter input thereby achieving a fast response time.
- The 2-wire output signal of 4...20 mA is proportional and linear to the temperature value that influences the built-in sensor.
- A reversed output signal of 20...4 mA may be ordered.
- · A number of different sensor error detection options may be
- · Protected against polarity reversal.
- · The bottom of the cabinet can be attached to a wall by two screws.
- · Visible or hidden cable access.

Applications





Order:

Туре	Measurement range		Output		Sensor error value		
2914	050°C	: A	Special	: 0	To max., ≥ 23 mA	: A	
	070°C	: В	420 mA	: 2	To min., ≤ 3.8 mA	: В	
	Special	: ×	204 mA	: 9	Special	: X	

Environmental Conditions

Operating temperature	0°C to +70°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP30

Mechanical specifications

Dimensions (HxWxD)	70 x 121 x 25 mm
Weight approx	95 g
Wire size	1 x 1 5 mm ²

Common specifications

Supply

Supply voltage	8.035 VDC
Internal power dissipation	25 mW0.8 V

Response time	
Response time	10 s (@ 0.5 m/s)
Voltage drop	8.0 VDC
Warm-up time	5 min.
Signal / noise ratio	Min. 60 dB
Accuracy	Better than 0.3°C
Signal dynamics, input	17 bit
Signal dynamics, output	16 bit
Effect of supply voltage change	< 0.005% of span / VDC
Temperature coefficient	< ±0.01% of span / °C
Linearity error	< 0.1% of span
EMC immunity influence	< ±0.5%

Input specifications

Common input specifications

Max.	offset	50%	of	max.	°C
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RTD input

Sensor current	> 0.2 mA. < 0.4 mA
Measurement range	070°C
Min. measurement range	25°C (span)

Output specifications

Current output

Signal range	420 mA
Min. signal range	16 mA
Load (@ current output)	\leq (Vsupply - 8) / 0.023 [Ω]
Load stability	\leq 0.01% of span / 100 Ω
NAMUR NE43 Upscale/Downscale	23 mA / 3.5 mA
Common output specifications	
Updating time	135 ms
of span	= of the presently selected range

Observed authority requirements

EMC	2014/30/EU & UK SI 2016/1091
RoHS	2011/65/EU & UK SI 2012/3032
EAC	TR-CU 020/2011